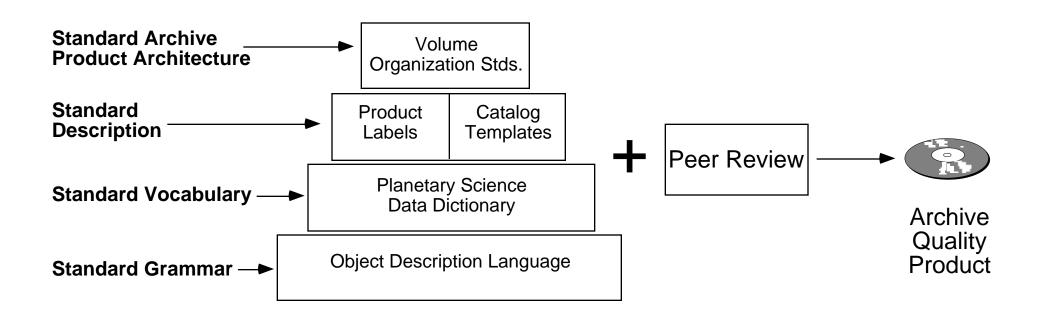
PDS STANDARDS OVERVIEW

September 1995

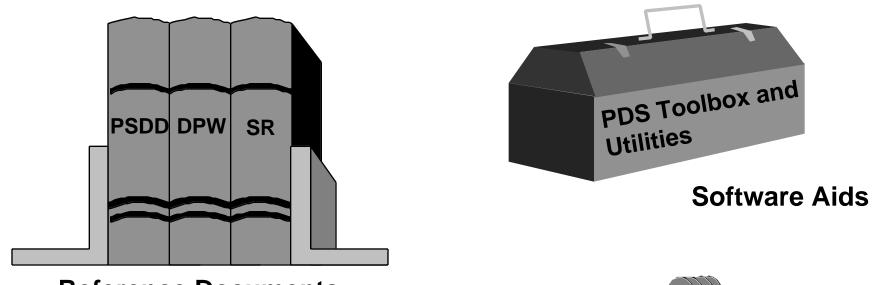
Topics

- What are the PDS Standards?
- Why are they useful?
- What kinds of data are archived by PDS?
- What are the steps to archive?

What are the PDS Standards?



Standards Resources



Reference Documents



Archiving Expertise



Why are the PDS Standards Useful?

Meets end user needs

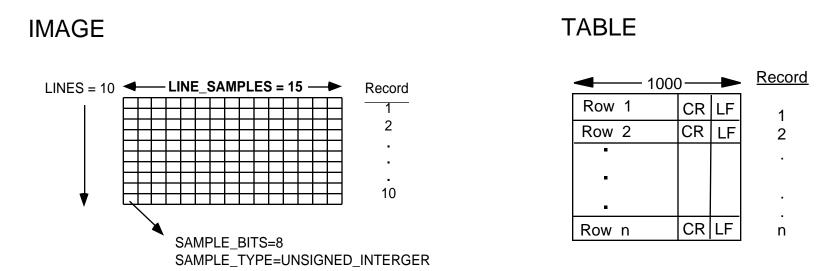
- Data packaged in a very useful form
- Consistency between data sets promotes usefulness of the data
- Peer review improves quality

Meets project archive goals

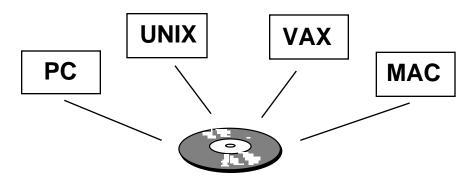
- Product Design experience saves resources
- Best archiving done during project

PDS Standards Overview Data Packaged in a Very Useful Form

Simple Data Structures



Platform/Operating System Independent



PDS Standards Overview Data Packaged in a Very Useful Form

Metadata Both Human and Machine Readable

SPACECRAFT_NAME = VOYAGER Portion

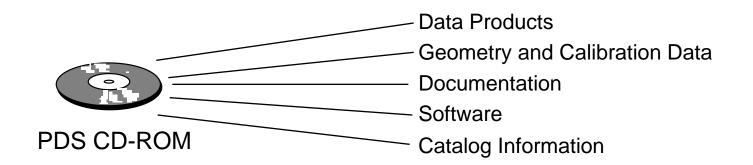
FILTER_NAME = GREEN of a PDS

LINES = 960

SAMPLES = 956

etc...

All necessary information supplied with the data:

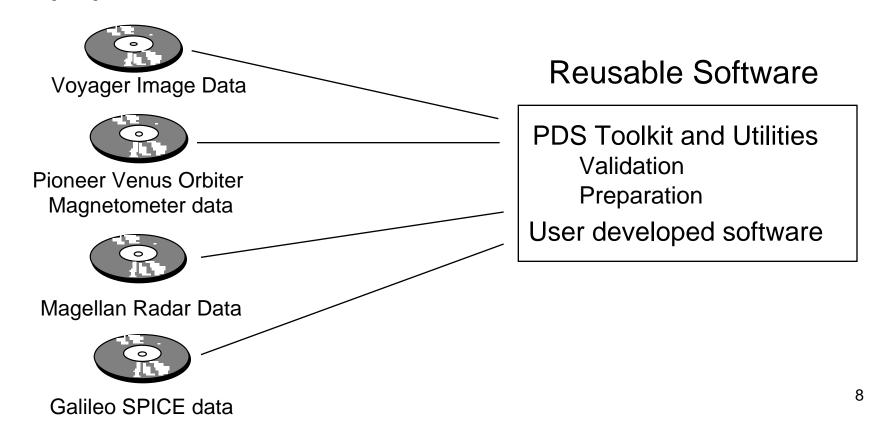


Consistency Between Data Sets

Consistency in the contents and organization of planetary data sets facilitates use of the data, including comparisons across missions or across disciplines.

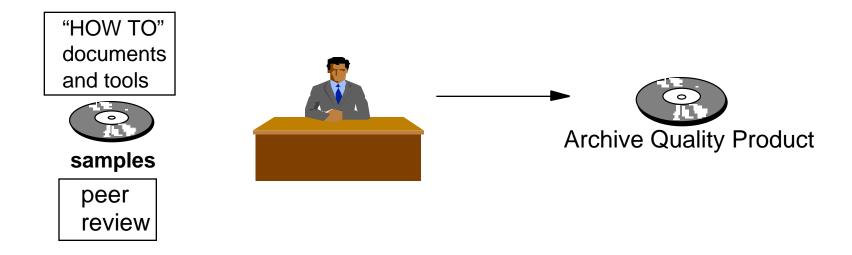
Consistency also promotes software reuse.

Example products:

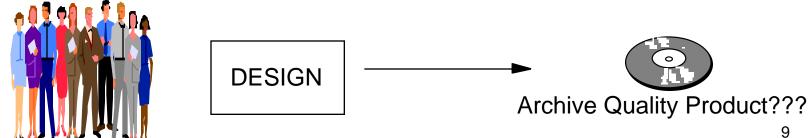


Meets Project Archive Goals

* PDS standard recipes can be followed. No need to redesign



* OR, project can design archive from scratch



PDS Standards Overview What kinds of data are archived by PDS?

Partial List:

ANEMOMETER

CAMERA (Framing Camera, Vidicon Camera, Wide Field Camera)

CCD

CHARGED PARTICLE ANALYZER

DETECTOR ARRAY

EYE (visual observations)

HYGROMETER

METEOROLOGY instruments

INFRARED IMAGING DEVICE

INFRARED INTERFEROMETER

MAGNETOMETER

PHOTOMETER (infrared)

PLASMA WAVE SPECTROMETER

POLARIMETER

RADAR

RADIO SCIENCE instruments

RADIOMETER

SPECTROMETER (imaging and infrared)

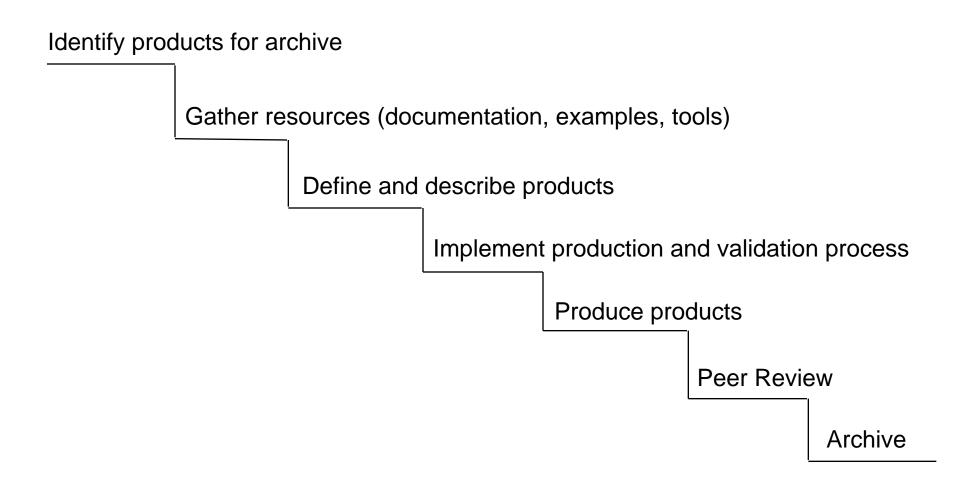
SYNTHESIZED ARRAY

TELESCOPE (optical)

THERMISTOR

TOTAL POWER DETECTOR

PDS Standards Overview What are the Steps to Archive?



Archive Cost Pyramid

